1652

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/606,129A

DATE: 02/12/2001 TIME: 15:06:26 RECEIVED

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Output Set: N:\CRF3\02122001\1606129A.raw

MAR 0 1 2001

**TECH CENTER 1600/2900** 

3 <110> APPLICANT: Maines, Mahin D. <120> TITLE OF INVENTION: BILIVERDIN REDUCTASE FRAGMENTS AND VARIANTS, AND METHODS OF USING BILIVERDIN REDUCTASE AND SUCH FRAGMENTS AND VARIANTS 9 <130> FILE REFERENCE: 176/60792 11 <140> CURRENT APPLICATION NUMBER: 09/606,129A 12 <141> CURRENT FILING DATE: 2000-06-28 14 <150> PRIOR APPLICATION NUMBER: 60/141,309 15 <151> PRIOR FILING DATE: 1999-06-28 17 <150> PRIOR APPLICATION NUMBER: 60/163,223 18 <151> PRIOR FILING DATE: 1999-11-03 20 <160> NUMBER OF SEQ ID NOS: 37 22 <170> SOFTWARE: PatentIn Ver. 2.1 24 <210> SEQ ID NO: 1 25 <211> LENGTH: 296 26 <212> TYPE: PRT 27 <213> ORGANISM: Homo sapiens 29 <400> SEQUENCE: 1 30 Met Asn Ala Glu Pro Glu Arg Lys Phe Gly Val Val Val Val Gly Val 31 1 5 10 33 Gly Arg Ala Gly Ser Val Arg Net Arg Asp Leu Arg Asn Pro His Pro 34  $\phantom{\bigg|}20\phantom{\bigg|}25\phantom{\bigg|}30\phantom{\bigg|}$ 36 Ser Ser Ala Phe Leu Asn Leu Ile Gly Phe Val Ser Arg Arg Glu Leu 35 40 39 Gly Ser Ile Asp Gly Val Gln Gln Tle Ser Leu Glu Asp Ala Leu Ser 55 40 60 42 Ser Gln Glu Val Glu Val Ala Tyr Ile Cys Ser Glu Ser Ser Ser His 70 45 Glu Asp Tyr Ile Arg Gln Phe Leu Asn Ala Gly Lys His Val Leu Val 90 46 8.5 Glu Tyr Pro Met Thr Leu Ser Leu Ala Ala Ala Gln Glu Leu Trp Glu 51 Leu Ala Glu Gln Lys Gly Lys Val Leu His Glu Glu His Val Glu Leu 125 52 1.15 120 54 Leu Met Glu Glu Phe Ala Phe Leu Lys Lys Glu Val Val Gly Lys Asp 1.35 1.40 57 Leu Leu Lys Gly Ser Leu Leu Phe Thr Ser Asp Pro Leu Glu Glu Asp 150 58 145 155 60 Arg Phe Gly Phe Pro Ala Phe Ser Gly Ile Ser Arg Leu Thr Trp Leu 1.65 1.70 175 63 Val Ser Leu Phe Gly Glu Leu Ser Leu Val Ser Ala Thr Leu Glu Glu 1.85 64 180 66 Arg Lys Glu Asp Gln Tyr Met Lys Met Thr Val Cys Leu Glu Thr Glu 67 200 205 1.95 69 Lys Lys Ser Pro Leu Ser Trp Lie Glu Glu Lys Gly Pro Gly Leu Lys 70 21.0 215 220 72 Arg Asn Arg Tyr Leu Ser Phe His Phe Lys Ser Gly Ser Leu Glu Asn

ENTERED

see pages

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Input Set : A:\U607921.app

Output Set: N:\CRF3\02122001\1606129A.raw

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73 225
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75 Val Pro Asn Val Gly Val Asn Lys Asn Ile Phe Leu Lys Asp Gln Asn
                245
                                 250
78 lle Phe Val Gln Lys Leu Leu Gly Gln Phe Ser Glu Lys Glu Leu Ala
                                                     270
        260 265
81 Ala Glu Lys Lys Arg Ile Leu His Cys Leu Gly Leu Ala Glu Glu Ile
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                            280
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85 290
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90 <212> TYPE: DNA
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96 teegtgegga tgagggaett geggaateea eaceetteet eagegtteet gaacetgatt 180
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100 acactyteat tygegycege teaggaacty tyggagetyg etgageagaa aggaaaayte 420
101 ttgcacgagg agcatgttga actcttgatg gaggaattcg ctttcctgaa aaaagaagtg 480
102 gtggggaaag acctgctgaa agggtcgctc ctcttcacat ctgacccgtt ggaagaagac 540
103 eggittigget teccigcatt cageggeate tetegactga cetggetggt etcectettt 600
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105 atgacagtgt gtctggagac agagaagaaa agtccactgt catggattga agaaaaagga 720
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107 gtgccaaatg taggagtgaa taagaacata tttctgaaag atcaaaatat atttgtccag 840
108 aaactettgg gecagttete tgagaaggaa etggetgetg aaaagaaacg cateetgeac 900
109 tgcctggggc ttgcagaaga aatccagaaa tattgctgtt caaggaagta agaggaggag 960
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123 Gly Arg Ala Gly Ser Val Arg Met Arg Asp Leu Arg Asn Pro His Pro 124 \phantom{\bigg|}20\phantom{\bigg|}25\phantom{\bigg|}30\phantom{\bigg|}
126 Ser Ser Ala Phe Leu Asn Leu Ile Gly Phe Val Ser Arg Arg Glu Leu
127 35 40 45
129 Gly Ser Ile Asp Gly Val Gln Gln Ile Ser Leu Glu Asp Ala Leu Ser
130 50 60
132 Ser Gln Glu Val Glu Val Ala Tyr Ile Cys Ser Glu Ser Ser Ser His
133 65 70 75 80
135 Glu Asp Tyr Ile Arg Gln Phe Leu Asn Ala Gly Lys His Val Leu Val
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138 Glu Tyr Pro Met Thr Leu Ser Leu Ala Ala Ala Gln Glu Leu Trp Glu 105 100 141 Leu Ala Glu Gln Lys Gly Lys Val Leu His Glu Glu His Val Glu Leu 142 115. 120 125 144 Leu Met Glu Glu Phe Ala Phe Leu Lys Lys Glu Val Val Gly Lys Asp 145 130 135 140 147 Leu Leu Lys Gly Ser Leu Leu Phe Thr Ala Gly Pro Leu Glu Glu Glu 148 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}150$ 150 Arg Phe Gly Phe Pro Ala Phe Ser Gly Ile Ser Arg Leu Thr Trp Leu 151 165 170 175 153 Val Ser Leu Phe Gly Glu Leu Ser Leu Val Ser Ala Thr Leu Glu Glu 154 180 185 190 156 Arg Lys Glu Asp Gln Tyr Met Lys Met Thr Val Cys Leu Glu Thr Glu
157 195 200 205 159 Lys Lys Ser Pro Leu Ser Trp Ile Glu Glu Lys Gly Pro Gly Leu Lys 160 210 215 220 162 Arg Asn Arg Tyr Leu Ser Phe His Phe Lys Ser Gly Ser Leu Glu Asn 163 225 230 235 240 1.65 Val Pro Asn Val Gly Val Asn Lys Asn Ile Phe Leu Lys Asp Gln Asn 166 245 250 255 168 Tle Phe Val Gln Lys Leu Leu Gly Gln Phe Ser Glu Lys Glu Leu Ala 169  $\phantom{\bigg|}260\phantom{\bigg|}$ 171 Ala Glu Lys Lys Arg Ile Leu His Cys Leu Gly Leu Ala Glu Glu Ile 172 285 280 285 174 Gln Lys Tyr Cys Cys Ser Arg Lys 1.75 290 295 1.78 <21.0> SEQ ID NO: 4 1.79 <21.1> LENGTH: 295 180 <212> TYPE: PRT 181 <213> ORGANISM: Rattus norvegicus 1.83 <400> SEQUENCE: 4 184 Met Asp Ala Glu Pro Lys Arg Lys Phe Gly Val Val Val Val Gly Val 185  $\phantom{\bigg|}$  1  $\phantom{\bigg|}$  5  $\phantom{\bigg|}$  10  $\phantom{\bigg|}$  15 187 Gly Arg Ala Gl $_{
m Y}$  Ser Val Arg Leu Arg Asp Leu Lys Asp Pro Arg Ser 188 20 25 30 190 Ala Ala Phe Leu Asn Leu Ile Gly Phe Val Ser Arg Arg Glu Leu Gly 191  $\phantom{\bigg|}$  35  $\phantom{\bigg|}$  40  $\phantom{\bigg|}$  45 193 Ser Leu Asp Glu Val Arg Gln Ile Ser Leu Glu Asp Ala Leu Arg Ser 194  $\phantom{000}50\phantom{000}$  50  $\phantom{000}55\phantom{000}$  60 196 Gln Glu Ile Asp Val Ala Tyr Ile Cys Ser Glu Ser Ser Ser His Glu 197 65 70 75 80 202 Tyr Pro Met Thr Leu Ser Phe Ala Ala Ala Gln Glu Leu Trp Glu Leu 203 100 105 110 205 Ala Ala Gl<br/>n Lys Gly Arg Val Leu His Glu Glu His Val Glu Leu Leu 206 115 120 125 208 Met Glu Glu Phe Glu Phe Leu Arg Arg Glu Val Leu Gly Lys Glu Leu 209 1.30 135

RAW SEQUENCE LISTING DATE: 02/12/2001
PATENT APPLICATION: US/09/606,129A TIME: 15:06:26

Input Set : A:\U607921.app

Output Set: N:\CRF3\02122001\1606129A.raw

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214 Phe Gly Phe Pro Ala Phe Ser Gly 11e Ser Arg Leu Thr Trp Leu Val
               165
                                      170
                                                        175
217 Ser Leu Phe Gly Glu Leu Ser Leu Ile Ser Ala Thr Leu Glu Glu Arg
           180
                                  185
                                                     190
218
220 Lys Glu Asp Gln Tyr Met Lys Met Thr Val Gln Leu Glu Thr Gln Asn
221 195
                           200
                                             205
223 Lys Gly Leu Leu Ser Trp 1le Glu Glu Lys Gly Pro Gly Leu Lys Arg
224 210 215
226 Asn Arg Tyr Val Asn Phe Gln Phe Thr Ser Gly Ser Leu Glu Glu Val
227 225
                230
                                       235
229 Pro Ser Val Gly Val Asn Lys Asn Ile Phe Leu Lys Asp Gln Asp Ile
230
                  245
                                      250
232 Phe Val Gln Lys Leu Leu Asp Gln Val Ser Ala Glu Asp Leu Ala Ala
            260
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                       265
233
235 Glu Lys Lys Arg Ile Met His Cys Leu Gly Leu Ala Ser Asp Ile Gln
236 275
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238 Lys Leu Cys His Gln Lys Lys
239 290 295
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250 gaaatttyga gtggtagtgg ttggtgttgg cagagctggc tcggtgagyc tgagggactt 180
251 gaaggateea egetetgeag catteetgaa eetgattgga tttgtgteea gaegagaget 240
252 tgggageett gatgaagtae ggeagattte tttggaagat geteteegaa geeaagagat 300
253 tyatgtegee tatatttgea giqagagtte cagecatgaa gactatatae ggcagtttet 360
254 geaggetgge aageatgtee tegtggaata ceceatgaca etgteatttg eggeggeeca 420
255 ggagctgtgg gagctggccg cacagaaagg gagagtcctg catgaggagc acgtggaact 480
256 cttgatggag gaattcgaat tcctgagaag agaagtgttg gggaaagagc tactgaaagg 540
257 gtotottogo ttoacagota goccactaga agaagagaga tttggottoc etgogttoag 600
258 cggcatttct cgcctgacct ggetggtctc cctcttcggg gagetttctc ttatttctgc 660
259 caccttggaa gagcgaaaag aggatcagta tatgaaaatg accgtgcagc tggagaccca 720
260 gaacaagggt ctgctgtcat ggattgaaga gaaagggcct ggcttaaaaa gaaacagata 780
261 tgtaaacttc cagttcactt ctgggtccct ggaggaagtq ccaagtgtag gggtcaataa 840
262 gaacatttte etgaaagate aggatatatt titteagaag etettagace aggitetetic 900
263 agaggacetg getgetgaga agaagegeat catgeattge etggggetgg ecagegacat 960
264 ccagaagett tgccaccaga agaagtgaag aggaagette agagacttet gaagggggee 1020
265 agggtttggt cotatoacc attoaccttt agotottaca attaaacatg toagataaac 1080
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271 <212> TYPE: PRT
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
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DATE: 02/12/2001

PATENT APPLICATION: US/09/606,129A TIME: 15:06:26 Input Set : A:\U607921.app Output Set: N:\CRF3\02122001\1606129A.raw 275 <223> OTHER INFORMATION: Description of Artificial Sequence: hydrophobic 276 domain of BVR 278 <220> FEATURE: 279 <221> NAME/KEY: PEPTIDE 280 <222> LOCATION: (2) 281 <223> OTHER INFORMATION: where X is any aa 283 <400> SEQUENCE: 6 W--> 284 Phe Xaa Val Val Val Val 285 288 <210> SEQ ID NO: 7 289 <211> LENGTH: 6 290 <212> TYPE: PRT 291 <213> ORGANISM: Artificial Sequence 293 <220> FEATURE: 294 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide 295 binding domain of BVR 297 <220> FEATURE: 298 <221> NAME/KEY: PEPTIDE 299 <222> LOCATION: (2) 300 <223> OTHER INFORMATION: where X is any aa 302 <220> FEATURE: 303 <221> NAME/KEY: PEPTIDE 304 <222> LOCATION: (4)..(5) 305 <223> OTHER INFORMATION: where X is any aa 307 <400> SEQUENCE: 7 W--> 308 Gly Xaa Gly Xaa Xaa Gly 309 312 <210> SEQ ID NO: 8 313 <211> LENGTH: 8 314 <212> TYPE: PRT 315 <213> ORGANISM: Artificial Sequence 317 <220> FEATURE: 318 <223> OTHER INFORMATION: Description of Artificial Sequence: oxidoreductase domain of BVR 31.9 321 <400> SEQUENCE: 8 322 Ala Gly Leu His Val Leu Val Glu 323 1 326 <210> SEQ ID NO: 9 327 <211> LENGTH: 29 328 <212> TYPE: PRT 329 <213> ORGANISM: Artificial Sequence 331 <220> FEATURE: 332 <223> OTHER INFORMATION: Description of Artificial Sequence: leucine 333 zipper of BVR 335 <220> FEATURE: 336 <221> NAME/KEY: PEPTIDE 337 <222> LOCATION: (2)..(7) 338 <223> OTHER INFORMATION: where X is any aa

RAW SEQUENCE LISTING

## Please Note:

340 <220> FEATURE:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/606,129A

Input Set : A:\U607921.app
Output Set: N:\CRF3\02122001\1606129A.raw

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L:356	M:341	₩:	(46)	" N "	or	"Xaa"	used,	for	SEQ	ID#:9	
L:359	M:341	W:	(46)	" II "	or	"Xaa"	used,	for	SEQ	ID#:9	
L:406	M:341	W:	(46)	u U u	or	"Xaa"	used,	for	SEQ	ID#:12	
L:453	M:341	₩:	(46)	uU u	or	"Xaa"	used,	for	SEQ	ID#:15	
L:472	M:341	W:	(46)	" n "	or	"Xaa"	used,	for	SEQ	1D#:16	
L:496	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:17	